

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P775751

Luminaire Tested: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B061)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K  
Description: 6 INCH ROUND NARROW LENSED WALLWASH KIT  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

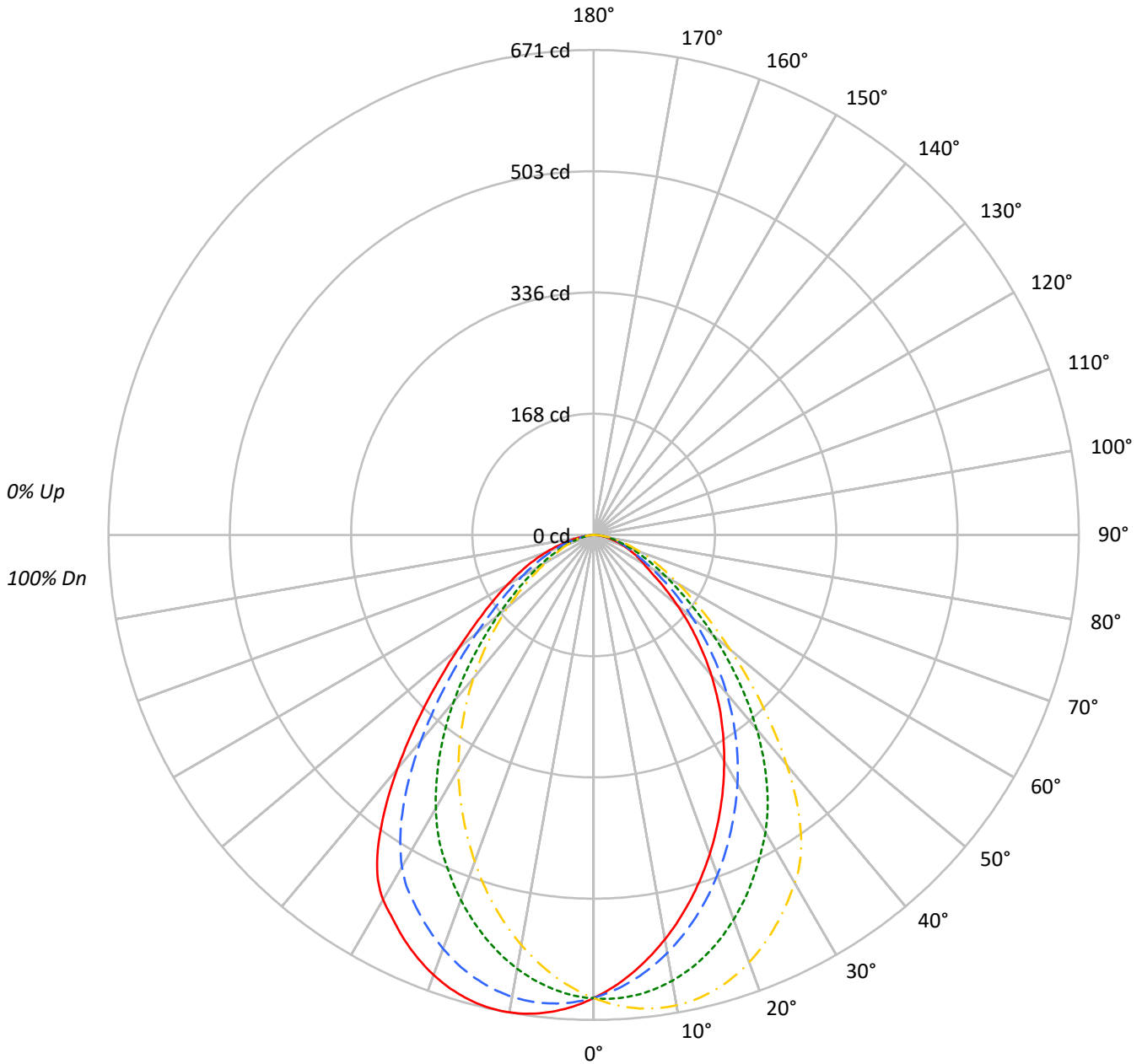
Lumens per Lamp: N/A  
Luminaire Lumens: 1163.5 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.09 / 1.15  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P775751  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	48								
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43								
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39								
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36								
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	35129	35129	35129	35129
5°	33502	35208	36441	34729
10°	31624	34864	37341	33928
15°	29575	34126	37787	32775
20°	27396	33025	37792	31334
25°	25139	31635	37417	29717
30°	22858	30074	36879	27637
35°	20532	27914	34680	24828
40°	18120	25104	30214	21548
45°	15529	21832	25220	17986
50°	12844	18430	20801	14643
55°	10360	15292	17510	11851
60°	8804	12685	15130	9637
65°	7990	10676	13218	7822
70°	7101	8960	11188	6251
75°	6227	7562	8875	4914
80°	5146	6535	5998	3662
85°	3208	6290	2139	2076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 25755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	5.2
10°-20°	166.2	14.3
20°-30°	235.4	20.2
30°-40°	250.8	21.6
40°-50°	201.3	17.3
50°-60°	130.7	11.2
60°-70°	75.8	6.5
70°-80°	35.6	3.1
80°-90°	7.8	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	461.6	39.7
0°-40°	712.4	61.2
0°-60°	1044.3	89.8
0°-90°	1163.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	641	641	641	641	641	
5°	609	640	662	631	609	57
15°	521	601	666	578	521	146
25°	416	523	619	491	416	191
35°	307	417	518	371	307	191
45°	200	282	325	232	200	154
55°	108	160	183	124	108	99
65°	62	82	102	60	62	61
75°	29	36	42	23	29	31
85°	5	10	3	3	5	7
90°	0	2	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
0.5°	638.2	638.2	638.9	640.0	641.8	642.5	643.1	643.4	643.7	642.9	642.1
1°	635.3	635.7	637.1	639.2	642.0	643.7	645.1	645.9	646.1	645.1	643.6
1.5°	632.3	633.2	635.1	638.3	642.1	644.9	647.0	648.3	648.6	647.1	644.9
2°	629.3	630.4	633.2	637.1	642.2	645.9	648.9	650.5	650.8	649.1	646.1
2.5°	626.0	627.6	631.0	635.9	642.0	646.7	650.6	652.7	653.1	650.9	647.2
3°	622.8	624.7	628.8	634.7	641.8	647.6	652.1	654.7	655.1	652.7	648.2
3.5°	619.5	621.6	626.4	633.3	641.5	648.2	653.6	656.6	657.1	654.2	649.1
4°	616.0	618.6	624.0	631.7	641.1	648.8	654.9	658.5	658.9	655.7	649.7
4.5°	612.5	615.4	621.4	630.1	640.5	649.2	656.1	660.1	660.6	657.0	650.4
5°	608.8	612.0	618.8	628.3	639.8	649.4	657.2	661.7	662.2	658.3	650.8
5.5°	605.1	608.7	616.0	626.5	639.0	649.6	658.2	663.2	663.7	659.4	651.2
6°	601.2	605.2	613.3	624.5	638.1	649.6	659.0	664.4	665.0	660.3	651.4
6.5°	597.3	601.6	610.3	622.5	636.9	649.5	659.7	665.5	666.2	661.2	651.5
7°	593.4	598.0	607.2	620.2	635.8	649.3	660.2	666.5	667.2	661.8	651.5
7.5°	589.4	594.2	604.2	617.9	634.5	649.0	660.6	667.5	668.2	662.5	651.4
8°	585.3	590.4	600.9	615.5	633.1	648.5	660.9	668.2	669.0	662.9	651.2
8.5°	581.0	586.5	597.6	613.1	631.5	647.9	661.1	668.9	669.6	663.2	650.8
9°	576.8	582.5	594.2	610.4	629.9	647.1	661.1	669.3	670.2	663.4	650.3
9.5°	572.5	578.4	590.7	607.7	628.2	646.3	661.0	669.7	670.5	663.5	649.7
10°	568.1	574.4	587.1	604.8	626.3	645.3	660.8	669.9	670.8	663.4	649.0
10.5°	563.6	570.3	583.5	601.9	624.3	644.3	660.5	670.0	670.9	663.1	648.1
11°	559.2	566.0	579.7	598.9	622.2	643.1	660.0	669.9	670.9	662.8	647.0
11.5°	554.5	561.6	575.8	595.8	619.9	641.7	659.4	669.7	670.7	662.2	645.8
12°	549.9	557.3	571.9	592.6	617.7	640.2	658.7	669.4	670.4	661.6	644.6
12.5°	545.2	552.8	568.0	589.2	615.3	638.7	657.8	668.9	670.0	660.9	643.3
13°	540.5	548.5	564.0	585.8	612.8	636.9	656.7	668.3	669.4	660.0	641.7
13.5°	535.6	543.9	559.8	582.5	610.0	635.1	655.5	667.6	668.7	659.1	640.1
14°	530.9	539.3	555.6	578.9	607.2	633.2	654.3	666.6	667.9	658.0	638.4
14.5°	525.9	534.5	551.4	575.1	604.4	631.0	652.9	665.6	666.9	656.6	636.5
15°	521.1	529.9	547.0	571.4	601.3	628.8	651.3	664.5	665.8	655.2	634.6
15.5°	515.9	525.0	542.6	567.5	598.4	626.5	649.7	663.2	664.5	653.7	632.5
16°	511.0	520.2	538.3	563.7	595.1	624.1	647.9	661.7	663.2	652.0	630.3
16.5°	506.0	515.3	533.8	559.6	591.8	621.5	645.9	660.2	661.6	650.3	628.1
17°	500.9	510.5	529.2	555.5	588.4	618.9	643.9	658.5	660.0	648.5	625.7
17.5°	495.7	505.5	524.5	551.3	585.0	616.1	641.7	656.7	658.3	646.4	623.2
18°	490.6	500.6	519.9	547.1	581.3	613.1	639.4	654.7	656.4	644.4	620.5
18.5°	485.3	495.5	515.1	542.8	577.7	610.1	636.9	652.7	654.4	642.1	617.8
19°	480.2	490.5	510.4	538.4	573.9	607.0	634.5	650.5	652.2	639.8	615.0
19.5°	474.9	485.3	505.5	534.0	570.1	603.9	631.8	648.3	650.0	637.3	612.1
20°	469.6	480.3	500.7	529.6	566.1	600.6	629.1	645.8	647.8	634.9	609.2
20.5°	464.2	475.1	495.8	524.9	562.1	597.1	626.2	643.3	645.2	632.2	606.0
21°	459.0	469.9	490.8	520.4	558.0	593.7	623.3	640.7	642.7	629.4	602.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	442.8	454.2	475.7	506.2	545.5	582.7	614.0	632.2	634.4	620.7	592.9
23°	437.3	448.8	470.6	501.4	541.0	578.8	610.6	629.3	631.4	617.6	589.3
23.5°	432.0	443.6	465.6	496.5	536.6	575.0	607.1	626.0	628.4	614.4	585.7
24°	426.6	438.2	460.4	491.7	532.0	570.8	603.7	622.9	625.2	611.0	582.0
24.5°	421.1	432.9	455.2	486.7	527.6	566.8	600.1	619.5	621.9	607.7	578.3
25°	415.6	427.6	450.1	481.7	523.0	562.8	596.3	616.2	618.6	604.2	574.3
25.5°	410.2	422.0	444.9	476.6	518.4	558.5	592.7	612.7	615.2	600.6	570.5
26°	404.8	416.7	439.6	471.7	513.6	554.3	588.9	609.1	611.6	596.9	566.6
26.5°	399.4	411.3	434.5	466.8	509.0	550.0	584.9	605.3	608.0	593.3	562.8
27°	393.9	406.1	429.3	461.7	504.1	545.6	580.8	601.7	604.3	589.5	559.1
27.5°	388.4	400.7	424.1	456.6	499.4	541.1	576.8	597.8	600.6	586.0	555.2
28°	382.9	395.1	418.8	451.6	494.5	536.6	572.8	594.0	596.9	582.5	551.0
28.5°	377.6	389.7	413.6	446.6	489.8	532.1	568.6	590.1	593.5	579.0	546.3
29°	372.0	384.4	408.3	441.4	484.9	527.7	564.4	586.3	590.1	575.1	541.2
29.5°	366.5	379.0	403.0	436.2	480.1	523.4	560.4	582.7	586.4	570.8	535.9
30°	361.1	373.6	397.7	431.1	475.1	518.7	556.4	579.0	582.6	566.0	530.3
30.5°	355.7	368.2	392.2	425.8	470.0	514.0	552.0	575.0	578.4	560.7	524.4
31°	350.2	362.8	386.9	420.2	464.7	509.0	547.7	570.8	573.7	555.1	518.0
31.5°	344.8	357.5	381.4	414.9	459.2	503.8	542.8	565.9	568.5	549.2	511.4
32°	339.3	351.8	376.0	409.3	453.7	498.2	537.5	560.8	562.9	542.8	504.8
32.5°	333.9	346.4	370.6	403.7	447.9	492.2	531.7	555.3	556.6	535.9	497.8
33°	328.6	341.0	365.0	398.1	441.8	486.2	526.0	549.4	549.9	528.6	490.4
33.5°	323.2	335.6	359.6	392.2	435.9	480.1	519.7	542.8	542.6	520.8	482.9
34°	317.8	330.1	354.0	386.4	429.7	473.8	513.3	535.7	534.7	513.0	475.3
34.5°	312.3	324.8	348.5	380.4	423.5	467.3	506.4	528.2	526.7	504.7	467.1
35°	306.8	319.3	342.9	374.5	417.1	460.5	499.2	520.2	518.2	496.2	459.1
35.5°	301.6	313.9	337.2	368.5	410.7	453.8	491.7	512.0	509.4	487.3	450.8
36°	296.3	308.5	331.6	362.5	404.3	446.8	484.1	503.6	500.4	478.4	442.3
36.5°	290.9	303.1	326.0	356.3	397.8	439.8	476.1	494.7	491.0	469.4	433.8
37°	285.4	297.4	320.3	350.3	391.2	432.6	468.1	485.6	481.4	460.0	424.9
37.5°	280.1	292.0	314.7	344.3	384.6	425.1	459.6	476.4	471.8	450.5	416.0
38°	274.7	286.6	308.9	338.2	377.8	418.1	451.1	467.2	462.0	440.8	407.1
38.5°	269.3	281.2	303.4	332.0	371.2	410.2	442.6	457.8	452.2	431.4	398.3
39°	264.0	275.7	297.8	326.0	364.4	402.7	433.9	448.2	442.1	421.5	389.3
39.5°	258.6	270.4	292.0	319.8	357.7	394.9	424.9	438.4	432.2	411.9	380.4
40°	253.2	265.0	286.2	313.7	350.8	387.3	415.9	428.6	422.2	402.1	371.1
40.5°	247.9	259.6	280.7	307.6	343.8	379.0	407.0	418.8	412.2	392.7	362.1
41°	242.4	254.2	275.0	301.4	336.9	371.2	398.1	409.0	402.2	382.7	353.2
41.5°	237.1	249.0	269.4	295.3	330.0	363.3	389.1	399.0	392.1	373.3	344.3
42°	231.7	243.6	263.8	289.1	323.2	355.6	379.8	389.2	382.3	363.4	335.2
42.5°	226.5	238.4	258.3	283.1	316.2	347.2	370.8	379.6	372.7	354.1	326.6
43°	221.2	233.1	252.7	276.7	309.2	339.4	361.8	370.0	362.9	344.5	317.8
43.5°	215.9	227.8	247.1	271.0	302.2	331.2	353.0	360.5	353.3	335.3	309.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	200.3	212.0	230.6	252.8	281.6	307.6	326.4	332.2	325.3	308.2	284.0
45.5°	195.1	206.9	225.2	247.1	274.7	299.6	317.8	323.5	316.2	299.5	275.9
46°	190.1	201.8	219.9	241.2	268.1	291.8	309.3	314.5	307.4	290.8	268.0
46.5°	185.0	196.7	214.5	235.3	261.2	284.3	300.9	306.0	298.7	282.4	260.1
47°	179.9	191.7	209.2	229.3	254.5	276.7	292.3	297.1	290.2	274.3	252.4
47.5°	174.9	186.6	204.0	223.8	247.9	269.1	284.3	289.0	281.9	266.2	245.1
48°	169.9	181.6	198.8	218.1	241.4	261.7	276.4	280.8	274.0	258.5	237.8
48.5°	165.0	176.7	193.6	212.6	234.9	254.6	268.6	273.1	266.2	250.9	230.7
49°	160.2	171.8	188.6	206.7	228.6	247.6	261.0	265.0	258.5	243.7	223.7
49.5°	155.4	167.0	183.5	201.3	222.2	240.3	253.6	257.7	251.2	236.4	217.0
50°	150.6	162.1	178.4	195.8	216.1	233.5	246.2	250.2	243.9	229.5	210.5
50.5°	146.0	157.2	173.5	190.4	209.8	226.7	239.0	243.2	236.8	222.7	204.2
51°	141.4	152.7	168.6	185.1	203.9	220.1	232.2	236.1	230.0	216.1	198.0
51.5°	136.9	148.1	163.7	179.7	198.3	213.7	225.6	229.4	223.6	209.9	192.0
52°	132.6	143.6	159.0	174.5	192.3	207.2	218.9	222.9	217.1	203.9	186.3
52.5°	128.3	139.0	154.2	169.4	186.5	200.9	212.6	216.7	211.0	198.0	180.6
53°	124.1	134.6	149.6	164.3	181.0	195.0	206.3	210.4	205.1	192.1	175.2
53.5°	119.9	130.2	144.8	159.4	175.5	189.1	200.4	204.5	199.2	186.7	170.0
54°	116.0	126.1	140.4	154.5	170.3	183.4	194.6	198.7	193.7	181.4	164.8
54.5°	112.1	122.0	136.1	149.7	165.0	177.8	188.8	193.1	188.3	176.2	159.9
55°	108.4	118.0	131.7	145.0	160.0	172.3	183.5	187.7	183.2	171.3	155.1
55.5°	104.7	114.1	127.4	140.5	155.0	167.1	178.0	182.3	178.0	166.3	150.5
56°	101.3	110.2	123.4	135.9	150.1	162.0	172.8	177.1	173.0	161.8	146.0
56.5°	98.0	106.4	119.2	131.6	145.4	157.0	167.7	172.0	168.2	157.1	141.5
57°	94.8	103.0	115.1	127.3	140.7	152.2	162.7	167.2	163.6	152.8	137.3
57.5°	91.7	99.4	111.0	123.1	136.3	147.4	158.0	162.4	159.0	148.4	133.2
58°	89.1	96.0	107.3	119.1	131.9	143.1	153.3	158.0	154.6	144.3	129.3
58.5°	86.4	92.7	103.6	115.1	127.8	138.7	148.8	153.5	150.3	140.1	125.3
59°	84.1	89.7	99.9	111.3	123.7	134.3	144.4	149.1	146.0	136.0	121.4
59.5°	81.9	86.7	96.3	107.4	119.6	130.0	139.9	144.8	141.9	132.1	117.8
60°	80.3	84.0	93.1	103.8	115.7	125.9	135.7	140.6	138.0	128.5	114.2
60.5°	78.6	81.3	89.7	100.3	111.9	121.9	131.7	136.5	134.1	124.5	110.6
61°	76.7	79.2	86.5	96.8	108.3	118.1	127.8	132.6	130.1	120.8	107.1
61.5°	74.9	77.1	83.6	93.4	104.7	114.3	123.9	128.7	126.4	117.3	103.7
62°	73.0	75.5	80.7	90.2	101.2	110.7	120.0	124.9	122.9	113.9	100.4
62.5°	71.0	73.7	77.9	86.9	97.8	107.0	116.2	121.1	119.2	110.3	97.0
63°	69.1	71.8	75.3	83.9	94.5	103.5	112.6	117.4	115.5	106.8	93.9
63.5°	67.2	70.0	72.7	80.8	91.2	100.2	109.0	113.8	112.0	103.5	90.7
64°	65.3	68.2	70.2	78.1	88.3	96.8	105.5	110.3	108.7	100.3	87.8
64.5°	63.5	66.2	67.9	75.2	85.3	93.7	102.0	106.9	105.2	96.9	84.8
65°	61.6	64.5	65.7	72.4	82.3	90.4	98.8	103.6	101.9	93.9	81.8
65.5°	59.8	62.8	63.6	69.8	79.4	87.4	95.5	100.2	98.6	90.6	78.9
66°	58.0	60.9	61.5	67.2	76.3	84.5	92.2	96.8	95.2	87.6	75.9





TEST NUMBER: P775751

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	52.7	55.6	56.0	59.9	68.4	75.5	83.2	87.4	85.5	78.5	67.7
68°	51.0	53.9	54.4	57.8	65.7	72.8	80.2	84.4	82.3	75.4	64.9
68.5°	49.3	52.1	52.8	55.5	63.2	70.0	77.1	81.3	79.2	72.3	62.3
69°	47.7	50.5	51.2	53.4	60.7	67.2	74.3	78.3	75.9	69.4	59.8
69.5°	45.9	48.9	49.7	51.3	58.3	64.7	71.3	75.1	72.9	66.5	57.2
70°	44.3	47.2	48.2	49.4	55.9	62.0	68.6	72.2	69.8	63.6	54.7
70.5°	42.7	45.6	46.6	47.4	53.7	59.6	65.9	69.3	66.8	60.8	52.3
71°	41.1	44.0	45.1	45.6	51.4	57.1	63.3	66.5	63.9	58.2	50.0
71.5°	39.6	42.4	43.7	43.8	49.3	54.8	60.6	63.6	60.9	55.4	47.6
72°	38.1	40.9	42.1	42.1	47.1	52.4	58.1	60.9	58.1	52.8	45.3
72.5°	36.8	39.4	40.7	40.4	45.1	50.1	55.5	58.2	55.3	50.1	43.1
73°	35.3	37.9	39.3	38.9	43.2	48.0	53.1	55.5	52.6	47.6	40.8
73.5°	33.9	36.8	37.9	37.3	41.2	45.7	50.6	53.0	49.7	45.1	38.7
74°	32.3	35.4	37.0	35.9	39.4	43.7	48.3	50.4	47.1	42.7	36.5
74.5°	30.8	33.9	35.5	34.5	37.6	41.5	46.0	47.9	44.5	40.2	34.5
75°	29.4	32.3	34.1	33.2	35.7	39.5	43.8	45.4	41.9	37.9	32.4
75.5°	28.1	30.8	32.7	31.7	34.0	37.6	41.5	43.1	39.4	35.6	30.5
76°	26.6	29.4	31.1	30.4	32.3	35.7	39.3	40.7	36.8	33.4	28.6
76.5°	25.3	28.1	29.8	29.1	30.7	33.8	37.1	38.4	34.5	31.2	26.6
77°	24.0	26.6	28.5	27.9	29.2	31.9	35.1	36.1	32.1	29.1	24.9
77.5°	22.7	25.3	27.2	26.6	27.6	30.2	33.1	34.0	29.8	27.0	23.1
78°	21.3	24.0	25.9	25.5	26.1	28.5	31.1	31.9	27.6	25.0	21.4
78.5°	20.1	22.7	24.7	24.3	24.7	26.8	29.2	29.8	25.3	23.1	19.7
79°	18.8	21.4	23.5	23.2	23.4	25.2	27.3	27.8	23.2	21.2	18.1
79.5°	17.6	20.1	22.2	22.0	21.9	23.7	25.5	25.9	21.0	19.4	16.5
80°	16.3	18.9	21.0	20.9	20.7	22.1	23.8	24.0	19.0	17.6	15.0
80.5°	15.2	17.7	19.8	19.9	19.5	20.7	22.0	22.1	17.0	15.9	13.6
81°	14.0	16.4	18.7	18.8	18.3	19.3	20.4	20.3	15.1	14.3	12.1
81.5°	12.8	15.2	17.4	17.7	17.1	17.9	18.8	18.5	13.3	12.7	10.8
82°	11.6	14.1	16.3	16.6	16.0	16.5	17.1	16.6	11.5	11.2	9.7
82.5°	10.5	12.9	15.2	15.5	14.9	15.2	15.6	14.9	10.1	9.9	8.5
83°	9.4	11.7	14.1	14.5	13.9	14.1	14.2	13.3	8.7	8.6	7.3
83.5°	8.4	10.6	13.0	13.5	12.9	12.9	12.9	11.7	7.2	7.2	6.2
84°	7.2	9.5	11.9	12.4	11.8	11.6	11.4	10.3	5.8	5.9	5.0
84.5°	6.1	8.4	10.9	11.5	10.9	10.6	10.3	8.9	4.4	4.6	4.2
85°	5.1	7.2	9.9	10.5	10.0	9.6	9.2	7.6	3.4	3.6	3.3
85.5°	4.1	6.2	8.9	9.5	9.1	8.6	8.0	6.1	2.7	2.7	2.6
86°	3.5	5.2	8.0	8.6	8.2	7.7	6.8	4.8	2.0	1.9	1.8
86.5°	2.9	4.4	6.9	7.6	7.3	6.6	5.6	3.8	1.6	1.3	1.2
87°	2.2	3.7	6.0	6.6	6.4	5.6	4.7	3.0	1.2	0.8	0.7
87.5°	1.5	3.1	5.1	5.7	5.6	4.8	3.8	2.1	0.9	0.4	0.3
88°	1.1	2.3	4.2	4.8	4.8	3.9	3.0	1.4	0.6	0.2	0.1
88.5°	0.6	1.7	3.5	3.9	3.9	3.2	2.1	0.9	0.3	0.1	0.0



TEST NUMBER: P775751  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	1.0	1.4	1.5	1.0	0.4	0.1	0.0	0.0	0.0



TEST NUMBER: P775751

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	640.8	640.8	640.8	640.8	640.8	640.8
0.5°	641.3	640.9	639.6	638.7	638.1	638.2
1°	641.8	640.3	638.0	636.2	635.2	635.3
1.5°	642.2	639.6	636.2	633.7	632.2	632.3
2°	642.5	638.7	634.4	631.1	629.2	629.3
2.5°	642.7	637.8	632.5	628.4	626.1	626.0
3°	642.7	636.6	630.4	625.6	622.9	622.8
3.5°	642.5	635.4	628.3	622.7	619.5	619.5
4°	642.2	634.1	625.9	619.7	616.1	616.0
4.5°	641.9	632.7	623.6	616.5	612.7	612.5
5°	641.4	631.1	621.0	613.4	609.0	608.8
5.5°	640.8	629.5	618.5	610.0	605.2	605.1
6°	640.1	627.7	615.8	606.6	601.5	601.2
6.5°	639.3	625.8	613.0	603.1	597.7	597.3
7°	638.4	623.8	610.1	599.5	593.7	593.4
7.5°	637.2	621.6	607.0	595.8	589.6	589.4
8°	636.0	619.4	603.9	592.0	585.5	585.3
8.5°	634.7	617.0	600.7	588.2	581.3	581.0
9°	633.4	614.6	597.3	584.3	577.1	576.8
9.5°	631.8	612.0	594.0	580.2	572.7	572.5
10°	630.2	609.5	590.5	576.1	568.4	568.1
10.5°	628.4	606.6	586.9	571.9	563.9	563.6
11°	626.5	603.8	583.2	567.7	559.4	559.2
11.5°	624.5	600.8	579.4	563.4	554.8	554.5
12°	622.3	597.8	575.6	559.0	550.1	549.9
12.5°	620.2	594.7	571.6	554.5	545.4	545.2
13°	617.9	591.3	567.7	549.9	540.6	540.5
13.5°	615.5	588.0	563.6	545.3	535.9	535.6
14°	612.9	584.6	559.4	540.7	531.0	530.9
14.5°	610.2	581.1	555.2	536.0	526.1	525.9
15°	607.5	577.5	550.9	531.2	521.1	521.1
15.5°	604.6	573.8	546.5	526.4	516.0	515.9
16°	601.7	570.0	541.9	521.5	511.0	511.0
16.5°	598.6	566.1	537.5	516.6	506.0	506.0
17°	595.5	562.2	532.9	511.6	500.8	500.9
17.5°	592.2	558.3	528.3	506.6	495.7	495.7
18°	588.9	554.1	523.6	501.6	490.4	490.6
18.5°	585.5	550.0	518.8	496.4	485.3	485.3
19°	582.0	545.7	514.1	491.3	480.0	480.2
19.5°	578.6	541.5	509.2	486.2	474.7	474.9
20°	574.8	537.1	504.4	481.0	469.4	469.6
20.5°	571.1	532.8	499.5	475.8	464.0	464.2
21°	567.2	528.3	494.5	470.4	458.7	459.0

TEST NUMBER: P775751

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	555.4	514.5	479.4	454.7	442.5	442.8
23°	551.3	509.9	474.4	449.3	437.0	437.3
23.5°	547.1	505.2	469.3	444.0	431.6	432.0
24°	543.0	500.6	464.3	438.8	426.1	426.6
24.5°	538.7	495.9	459.3	433.5	420.7	421.1
25°	534.5	491.3	454.3	427.9	415.3	415.6
25.5°	530.3	486.5	449.0	422.9	409.9	410.2
26°	526.1	481.8	444.0	417.2	404.5	404.8
26.5°	521.8	476.9	438.9	412.1	399.0	399.4
27°	517.3	471.6	433.6	406.7	393.5	393.9
27.5°	512.5	465.9	428.0	401.4	388.1	388.4
28°	507.1	460.4	422.3	395.8	382.7	382.9
28.5°	501.6	454.5	416.6	390.5	377.2	377.6
29°	496.0	448.8	410.9	385.0	371.7	372.0
29.5°	490.2	442.8	405.2	379.5	366.3	366.5
30°	484.0	436.6	399.3	373.6	361.0	361.1
30.5°	477.8	430.4	393.4	368.3	355.6	355.7
31°	471.3	424.2	387.2	362.5	350.0	350.2
31.5°	464.8	417.8	381.1	356.7	344.6	344.8
32°	458.0	411.2	375.0	350.8	339.1	339.3
32.5°	451.1	404.6	368.9	345.3	333.6	333.9
33°	444.2	398.1	362.7	339.5	328.2	328.6
33.5°	437.1	391.3	356.3	333.7	322.7	323.2
34°	429.8	384.7	350.2	327.9	317.1	317.8
34.5°	422.3	377.6	343.8	322.0	311.5	312.3
35°	415.0	371.0	337.7	316.2	306.0	306.8
35.5°	407.6	364.0	331.2	310.4	300.6	301.6
36°	400.0	357.1	325.2	304.6	295.1	296.3
36.5°	392.1	350.2	318.9	298.9	289.6	290.9
37°	384.2	343.3	312.8	293.1	284.1	285.4
37.5°	376.3	336.3	306.3	287.4	278.7	280.1
38°	368.4	329.2	300.3	281.5	273.1	274.7
38.5°	360.4	322.1	294.0	275.8	267.7	269.3
39°	352.3	315.2	287.8	270.2	262.1	264.0
39.5°	344.3	308.3	281.4	264.5	256.7	258.6
40°	336.2	301.1	275.2	258.6	251.3	253.2
40.5°	328.2	294.1	268.9	252.8	245.9	247.9
41°	320.2	287.0	262.6	247.0	240.6	242.4
41.5°	312.0	280.1	256.3	241.4	235.2	237.1
42°	304.2	273.2	250.3	235.9	229.9	231.7
42.5°	296.2	266.2	244.2	230.5	224.7	226.5
43°	288.4	259.3	238.2	225.0	219.5	221.2
43.5°	280.5	252.3	232.2	219.6	214.3	215.9



TEST NUMBER: P775751

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	258.0	232.0	214.8	203.6	198.6	200.3
45.5°	250.6	225.5	209.0	198.4	193.4	195.1
46°	243.5	219.2	203.5	193.3	188.4	190.1
46.5°	236.2	212.8	197.9	188.1	183.3	185.0
47°	229.1	206.6	192.3	183.1	178.4	179.9
47.5°	222.3	200.4	186.8	178.1	173.6	174.9
48°	215.7	194.4	181.3	173.0	168.8	169.9
48.5°	209.2	188.6	175.9	168.1	163.9	165.0
49°	202.9	182.8	170.8	163.3	159.3	160.2
49.5°	196.5	177.3	165.7	158.4	154.7	155.4
50°	190.6	171.7	160.6	153.7	150.0	150.6
50.5°	184.6	166.3	155.5	149.0	145.4	146.0
51°	178.8	161.1	150.6	144.3	141.1	141.4
51.5°	173.4	156.1	145.9	139.7	136.7	136.9
52°	168.1	151.1	141.3	135.4	132.4	132.6
52.5°	162.7	146.2	136.7	131.0	128.2	128.3
53°	157.6	141.5	132.2	126.6	124.0	124.1
53.5°	152.6	136.9	127.9	122.3	119.8	119.9
54°	147.8	132.4	123.6	118.2	115.7	116.0
54.5°	143.0	128.2	119.5	114.1	111.7	112.1
55°	138.6	124.0	115.5	110.1	108.0	108.4
55.5°	134.1	119.9	111.4	106.2	104.1	104.7
56°	129.8	115.9	107.7	102.4	100.5	101.3
56.5°	125.6	112.0	103.9	98.8	96.8	98.0
57°	121.6	108.3	100.2	95.2	93.4	94.8
57.5°	117.7	104.6	96.7	91.7	90.1	91.7
58°	113.9	101.0	93.3	88.5	86.9	89.1
58.5°	110.1	97.7	90.0	85.2	84.0	86.4
59°	106.4	94.3	86.7	82.1	81.1	84.1
59.5°	103.0	91.0	83.7	79.2	78.5	81.9
60°	99.5	87.9	80.6	76.2	76.0	80.3
60.5°	96.2	84.7	77.6	73.5	73.7	78.6
61°	93.1	81.7	74.8	70.8	71.4	76.7
61.5°	89.8	78.8	71.9	68.3	69.5	74.9
62°	86.8	76.0	69.3	65.9	67.8	73.0
62.5°	83.8	73.2	66.7	63.6	66.0	71.0
63°	80.8	70.4	64.1	61.2	64.3	69.1
63.5°	77.8	67.8	61.6	59.1	62.6	67.2
64°	75.1	65.2	59.3	57.0	60.8	65.3
64.5°	72.3	62.8	57.0	55.1	59.1	63.5
65°	69.6	60.3	54.8	53.2	57.4	61.6
65.5°	66.9	57.9	52.6	51.3	55.8	59.8
66°	64.4	55.5	50.5	49.6	54.1	58.0



TEST NUMBER: P775751

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	56.9	48.9	44.6	44.9	49.3	52.7
68°	54.5	46.8	42.8	43.5	47.7	51.0
68.5°	52.2	44.8	41.0	42.1	46.0	49.3
69°	50.0	42.9	39.3	40.7	44.5	47.7
69.5°	47.8	40.9	37.7	39.4	42.9	45.9
70°	45.6	39.0	36.2	38.1	41.4	44.3
70.5°	43.5	37.2	34.7	36.6	39.9	42.7
71°	41.5	35.6	33.3	35.3	38.4	41.1
71.5°	39.5	33.9	31.8	34.1	36.8	39.6
72°	37.4	32.2	30.3	32.9	35.4	38.1
72.5°	35.6	30.6	29.0	31.6	34.1	36.8
73°	33.8	29.0	27.7	30.4	32.7	35.3
73.5°	31.9	27.3	26.4	29.1	31.3	33.9
74°	30.1	25.9	25.2	27.9	29.9	32.3
74.5°	28.5	24.5	24.1	26.6	28.6	30.8
75°	26.8	23.2	23.0	25.4	27.2	29.4
75.5°	25.2	21.8	21.8	24.3	25.9	28.1
76°	23.7	20.5	20.7	23.1	24.6	26.6
76.5°	22.1	19.3	19.7	21.8	23.4	25.3
77°	20.7	18.1	18.7	20.7	22.0	24.0
77.5°	19.3	16.9	17.7	19.6	20.8	22.7
78°	18.0	15.8	16.6	18.5	19.6	21.3
78.5°	16.5	14.7	15.6	17.3	18.4	20.1
79°	15.3	13.6	14.7	16.2	17.1	18.8
79.5°	14.1	12.6	13.7	15.1	15.9	17.6
80°	12.9	11.6	12.8	14.1	14.8	16.3
80.5°	11.7	10.7	11.8	13.1	13.6	15.2
81°	10.6	9.8	10.9	12.0	12.4	14.0
81.5°	9.6	8.9	9.9	11.0	11.3	12.8
82°	8.7	8.0	9.1	10.0	10.2	11.6
82.5°	7.7	7.1	8.2	9.0	9.1	10.5
83°	6.6	6.3	7.2	8.1	8.0	9.4
83.5°	5.7	5.5	6.4	7.1	6.9	8.4
84°	4.8	4.7	5.5	6.2	5.9	7.2
84.5°	4.0	4.0	4.7	5.4	5.0	6.1
85°	3.3	3.3	3.9	4.5	4.2	5.1
85.5°	2.4	2.6	3.1	3.7	3.6	4.1
86°	1.8	1.7	2.2	3.0	3.0	3.5
86.5°	1.2	1.0	1.5	2.1	2.3	2.9
87°	0.6	0.4	0.7	1.4	1.7	2.2
87.5°	0.2	0.1	0.2	0.6	1.1	1.5
88°	0.0	0.0	0.0	0.1	0.6	1.1
88.5°	0.0	0.0	0.0	0.0	0.2	0.6



TEST NUMBER: P775751

CATALOG NUMBER: HCDJBL510CSD-HCD62TRH-HCD62TRLWW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - 135°-315°

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21.5°	453.6	464.7	485.8	515.6	553.9	590.1	620.3	638.0	640.0	626.6	599.6
22°	448.3	459.5	480.8	511.0	549.7	586.3	617.1	635.1	637.2	623.7	596.3



44°	210.7	222.4	241.5	264.9	295.4	323.5	344.0	350.7	343.7	325.9	300.6
44.5°	205.5	217.3	236.0	258.9	288.6	315.3	335.0	341.4	334.6	316.9	292.3



66.5°	56.1	59.1	59.6	64.7	73.7	81.4	89.2	93.7	91.8	84.6	73.1
67°	54.4	57.3	57.8	62.3	70.9	78.5	86.2	90.6	88.7	81.5	70.4



89°	0.3	1.1	2.7	3.1	3.1	2.4	1.4	0.5	0.1	0.0	0.0
89.5°	0.0	0.6	1.8	2.2	2.3	1.7	0.9	0.2	0.0	0.0	0.0



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21.5°	563.5	523.7	489.3	465.2	453.2	453.6
22°	559.4	519.2	484.5	460.0	447.9	448.3



44°	272.9	245.5	226.4	214.1	209.0	210.7
44.5°	265.4	238.9	220.6	208.9	203.8	205.5



66.5°	61.8	53.3	48.5	48.0	52.4	56.1
67°	59.3	51.1	46.5	46.4	50.8	54.4

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89°	0.0	0.0	0.0	0.0	0.1	0.3
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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(END OF REPORT)